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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/763,866

01/22/2004

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Sony-29000

8507

28960 7590 06/22/2009

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EXAMINER

ALI, FARHAD

ART UNIT

PAPER NUMBER

2446

MAIL DATE

DELIVERY MODE

06/22/2009

PAPER

REC'D JUN 22 2009

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/763,866

Applicant(s)

EYCHISON ET AL.

Examiner

FARHAD ALI

Art Unit

2446

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
 - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
 - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 27 March 2009.
- 2a) ☒ This action is FINAL. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1,2,4-11,13,15-20 and 22-24 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1,2,4-11,13,15-20 and 22-24 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____.

- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____.
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____.

DETAILED ACTION

Status of Claims:

Claims 1-2, 4-11, 13, 15-20, and 22-24 are pending in this Office Action.

Claims 1, 7-9, 20, and 23-24 are amended.

Claims 3 and 14 are cancelled.

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-11, 13-20, and 22-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Warren (US 2003/0204612 A1) in view of Lozinski (US 5,623,695 A).

Claim 1

Warren teaches a method comprising:

searching for at least one device based on a content type (Paragraph [0024] "A web services protocol is a protocol that may allow a web service to be published, located, and invoked over a network, although any other and/or additional functions may be supported by the web services protocol" and paragraph [0053] In one embodiment, database 236 stores device information 254. In a particular embodiment, device information 254 identifies each network element 108 in system 100 and the device type

of each network element 108. For example, each network element 108 may communicate using at least one communications protocol, and network elements 108 may be divided into groups or device types based on the communications protocol used by network elements 108);

detecting the at least one device (See figure 4, number 404 "identify network element");

detecting a protocol associated with each device (See figure 4, number 406 "identify communications protocol");

matching the detected protocol with a protocol translator module; and using the protocol translator module to translate a command formatted in the protocol into a translated command (See figure 4, number 414 "translate device command" and paragraph [0020] "In a particular embodiment, manager 102 communicates using a web services protocol, and abstraction device 106 translates between the web services protocol and the protocols used by network elements 108. This may allow manager 102 to communicate with different network elements 108 using a common protocol").

Warren fails to teach wherein the translated command is formatted in a common application programming interface, wherein the common application programming interface is a single application programming interface that is configured to be used by a plurality of applications.

However, Lozinski teaches in Column 1 lines 50-54 "a data processing system in which an application program can communicate with two or more system facilities via a programming interface common to the facilities" in order that "an application program

can select at any particular time which of the facilities to communicate with using the interface" (Column 1 lines 56-58).

It would have been obvious to one of ordinary skill in the art at the time of the invention to create the invention of Warren to include "a data processing system in which an application program can communicate with two or more system facilities via a programming interface common to the facilities" as taught by Lozinski in order that "an application program can select at any particular time which of the facilities to communicate with using the interface".

Claim 2

The modified Warren teaches the method according to claim 1, further comprising searching for the device from a plurality of devices based on a device identifier (paragraph [0065] "Device identifier").

Claim 3

The modified Warren teaches the method according to claim 1, further comprising searching for the device from a plurality of devices based on a content type (paragraph [0065] "Device identifier" and "Other and/or additional information may be included in identification information 352 without departing from the scope of the present invention").

Claim 4

The modified Warren teaches the method according to claim 1, further comprising searching for the device from a plurality of devices based on a device type (paragraph [00703] "Device type identifier").

Claim 5

The modified Warren teaches the method according to claim 1, further comprising searching for the device from a plurality of devices based on a device's availability (paragraph [0065] "Device identifier" and "Other and/or additional information may be included in identification information 352 without departing from the scope of the present invention").

Claim 6

The modified Warren teaches the method according to claim 1, further comprising searching for the protocol translator module (paragraph [0070] "Abstraction device 206 identifies the communications protocol used by the identified network element 108 at step 406. This may include, for example, command translator 234 using device information 254 and/or device type information 256 in database 236 to identify the communications protocol").

Claim 7

Warren teaches a system comprising:

means for searching for at least one device based on a content type (Paragraph [0024] "A web services protocol is a protocol that may allow a web service to be published, located, and invoked over a network, although any other and/or additional functions may be supported by the web services protocol" and paragraph [0053] In one embodiment, database 236 stores device information 254. In a particular embodiment, device information 254 identifies each network element 108 in system 100 and the device type of each network element 108. For example, each network element 108 may communicate using at least one communications protocol, and network elements 108 may be divided into groups or device types based on the communications protocol used by network elements 108);

means for detecting the at least one device (See figure 4, number 404 "identify network element");

means for detecting a protocol associated with each device (See figure 4, number 406 "identify communications protocol");

means for matching the detected protocol with a protocol translator module; and
means for using the protocol translator module to translate a command formatted in the protocol into a translated command (See figure 4, number 414 "translate device command" and paragraph [0020] "In a particular embodiment, manager 102 communicates using a web services protocol, and abstraction device 106 translates between the web services protocol and the protocols used by network elements 108. This may allow manager 102 to communicate with different network elements 108 using a common protocol").

Warren fails to teach wherein the translated command is formatted in a common application programming interface, wherein the common application programming interface is a single application programming interface that is configured to be used by a plurality of applications.

However, Lozinski teaches in Column 1 lines 50-54 "a data processing system in which an application program can communicate with two or more system facilities via a programming interface common to the facilities" in order that "an application program can select at any particular time which of the facilities to communicate with using the interface" (Column 1 lines 56-58).

It would have been obvious to one of ordinary skill in the art at the time of the invention to create the invention of Warren to include "a data processing system in which an application program can communicate with two or more system facilities via a programming interface common to the facilities" as taught by Lozinski in order that "an application program can select at any particular time which of the facilities to communicate with using the interface".

Claim 8

Warren teaches a method comprising:

searching for at least one service based on a content type (Paragraph [0024] "A web services protocol is a protocol that may allow a web service to be published, located, and invoked over a network, although any other and/or additional functions may be supported by the web services protocol" and paragraph [0053] In one embodiment,

database 236 stores device information 254. In a particular embodiment, device information 254 identifies each network element 108 in system 100 and the device type of each network element 108. For example, each network element 108 may communicate using at least one communications protocol, and network elements 108 may be divided into groups or device types based on the communications protocol used by network elements 108).

detecting at the least one service (See figure 4, number 404 "identify network element");

detecting a protocol associated with each service (See figure 4, number 406 "identify communications protocol");

matching the detected protocol with a protocol translator module; and using the protocol translator module to translate a command formatted in the protocol into a translated command (See figure 4, number 414 "translate device command" and paragraph [0020] "In a particular embodiment, manager 102 communicates using a web services protocol, and abstraction device 106 translates between the web services protocol and the protocols used by network elements 108. This may allow manager 102 to communicate with different network elements 108 using a common protocol").

Warren fails to teach wherein the translated command is formatted in a common application programming interface, wherein the common application programming interface is a single application programming interface that is configured to be used by a plurality of applications.

However, Lozinski teaches in Column 1 lines 50-54 "a data processing system in which an application program can communicate with two or more system facilities via a programming interface common to the facilities" in order that "an application program can select at any particular time which of the facilities to communicate with using the interface" (Column 1 lines 56-58).

It would have been obvious to one of ordinary skill in the art at the time of the invention to create the invention of Warren to include "a data processing system in which an application program can communicate with two or more system facilities via a programming interface common to the facilities" as taught by Lozinski in order that "an application program can select at any particular time which of the facilities to communicate with using the interface".

Claim 9

Warren teaches a method comprising:

searching for a specific device from a plurality of devices based on a content type

(Paragraph [0024] "A web services protocol is a protocol that may allow a web service to be published, located, and invoked over a network, although any other and/or additional functions may be supported by the web services protocol" and paragraph [0053] In one embodiment, database 236 stores device information 254. In a particular embodiment, device information 254 identifies each network element 108 in system 100 and the device type of each network element 108. For example, each network element 108 may communicate using at least one communications protocol, and network

elements 108 may be divided into groups or device types based on the communications protocol used by network elements 108);

detecting the plurality of devices wherein each unique device communicates using a corresponding protocol (See figure 4, number 404 "identify network element");

displaying an indication of each device if a protocol translator module is matched with the corresponding protocol (See figure 4, number 406 and 412, "identify network element" and "Map information"); and

translating a command formatted in the corresponding protocol into a translated command (See figure 4, number 414 "translate device command" and paragraph [0020] "In a particular embodiment, manager 102 communicates using a web services protocol, and abstraction device 106 translates between the web services protocol and the protocols used by network elements 108. This may allow manager 102 to communicate with different network elements 108 using a common protocol").

Warren fails to teach wherein the translated command is formatted in a common application programming interface through the protocol translator module, wherein the common application programming interface is a single application programming interface that is configured to be used by a plurality of applications.

However, Lozinski teaches in Column 1 lines 50-54 "a data processing system in which an application program can communicate with two or more system facilities via a programming interface common to the facilities" in order that "an application program can select at any particular time which of the facilities to communicate with using the interface" (Column 1 lines 56-58).

It would have been obvious to one of ordinary skill in the art at the time of the invention to create the invention of Warren to include "a data processing system in which an application program can communicate with two or more system facilities via a programming interface common to the facilities" as taught by Lozinski in order that "an application program can select at any particular time which of the facilities to communicate with using the interface".

Claim 10

The modified Warren teaches the method according to claim 9, further comprising detecting the corresponding protocol from each device (See figure 4, number 406 "identify communications protocol").

Claim 11

The modified Warren teaches the method according to claim 9, further comprising storing the protocol translator module (paragraph [0052], "Database 236 may include any hardware, software, firmware, or combination thereof suitable to store and facilitate retrieval of information. Database 236 may store any suitable information used by abstraction device 206 to perform command translation or other functions" and paragraph [0054], "Database 236 may also store device type information 256. Device type information 256 may, for example, identify each device type in system 100, the communications protocol used by each of the device types, and any other suitable information about the device types").

Claim 13

The modified Warren teaches the method according to claim 9, further comprising searching for a specific device from the plurality of devices based on a device identifier (paragraph [0065] "Device identifier").

Claim 14

The modified Warren teaches the method according to claim 9, further comprising searching for a specific device from the plurality of devices based on a content type (paragraph [0065] "Device identifier" and "Other and/or additional information may be included in identification information 352 without departing from the scope of the present invention").

Claim 15

The modified Warren teaches the method according to claim 9, further comprising searching for a specific device from the plurality of devices based on a device type (paragraph [00703] "Device type identifier").

Claim 16

The modified Warren teaches the method according to claim 9, further comprising searching for a specific device from the plurality of devices based on a device's availability (paragraph [0065] "Device identifier" and "Other and/or additional

information may be included in identification information 352 without departing from the scope of the present invention").

Claim 17

Warren teaches a method comprising:

identifying a plurality of protocol translator modules wherein each protocol translator module is associated with a unique protocol; storing a list representing the plurality of protocol translator modules (paragraph [0052], "Database 236 may include any hardware, software, firmware, or combination thereof suitable to store and facilitate retrieval of information. Database 236 may store any suitable information used by abstraction device 206 to perform command translation or other functions" and paragraph [0054], "Database 236 may also store device type information 256. Device type information 256 may, for example, identify each device type in system 100, the communications protocol used by each of the device types, and any other suitable information about the device types");

displaying an indication of each device having a device protocol that is compatible with one of the plurality of protocol translator modules in the list(See figure 4, number 406 "identify communications protocol"); and

translating a command formatted in the device protocol into a translated command (See figure 4, number 414 "translate device command" and paragraph [0020] "In a particular embodiment, manager 102 communicates using a web services protocol, and abstraction device 106 translates between the web services protocol and

the protocols used by network elements 108. This may allow manager 102 to communicate with different network elements 108 using a common protocol").

Warren fails to teach wherein the translated command is formatted in a common application programming interface through one of the plurality of protocol translator modules, wherein the common application programming interface is a single application programming interface that is configured to be used by a plurality of applications.

However, Lozinski teaches in Column 1 lines 50-54 "a data processing system in which an application program can communicate with two or more system facilities via a programming interface common to the facilities" in order that "an application program can select at any particular time which of the facilities to communicate with using the interface" (Column 1 lines 56-58).

It would have been obvious to one of ordinary skill in the art at the time of the invention to create the invention of Warren to include "a data processing system in which an application program can communicate with two or more system facilities via a programming interface common to the facilities" as taught by Lozinski in order that "an application program can select at any particular time which of the facilities to communicate with using the interface".

Claim 18

The modified Warren teaches the method according to claim 17, further comprising searching for additional protocol translator modules (paragraph [0052], "Database 236 may include any hardware, software, firmware, or combination thereof

suitable to store and facilitate retrieval of information. Database 236 may store any suitable information used by abstraction device 206 to perform command translation or other functions").

Claim 19

The modified Warren teaches the method according to claim 18, further comprising updating the index in response to the searching for additional protocol translator modules (paragraph [0052], "Database 236 may include any hardware, software, firmware, or combination thereof suitable to store and facilitate retrieval of information. Database 236 may store any suitable information used by abstraction device 206 to perform command translation or other functions").

Claim 20

Warren teaches a system comprising:

a first device configured for operating using a first protocol; a second device configured for operating using a second protocol; and a protocol translation layer configured for searching for a first protocol translation module corresponding to the first protocol and for searching for a second protocol translation module corresponding to the second protocol (paragraph [0006] "The apparatus further includes a plurality of protocol converters, each operable to receive at least one device command, translate the at least one device command from a first protocol to a second protocol, and communicate the at least one device command to one or more network or non-network

device elements. At least two of the protocol converters are operable to translate the at least one device command into different second protocols"), wherein the protocol translation layer is configured to translate a first command formatted in the first protocol into a command (See figure 4, number 414 "translate device command" and paragraph [0020] "In a particular embodiment, manager 102 communicates using a web services protocol, and abstraction device 106 translates between the web services protocol and the protocols used by network elements 108. This may allow manager 102 to communicate with different network elements 108 using a common protocol"), the first protocol translation module and second protocol translation module stored in a list representing a plurality of protocol translator modules ([0049] "Command translator 234 may receive commands 240 and translate and/or reformat commands 240 into one or more device commands 248 suitable for use by network elements 108. For example, command translator 234 may receive a command 240, access database 236 and/or an asset manager 246, and identify the network element 108 associated with command 240. Command translator 234 may also access database 236 and identify one or more device commands 248a and 248b (referred to collectively as device commands 248) that invoke the function requested by command 240 in the identified network element or elements 108. Command translator 234 may further use the information stored in database 236 to map information contained in command 240 into the appropriate positions or fields in device commands 248. In addition, command translator 234 may communicate each device command 248 to a protocol converter 238 that communicates with a network element 108 using the appropriate protocol" and

paragraph [0052] "Database 236 stores and facilitates retrieval of information used by abstraction device 206 to perform command translation and other functions. Database 236 may include any of a variety of data structures, arrangements, and/or compilations suitable to store and facilitate retrieval of information").

Warren fails to teach a plurality of applications configured for operating through a single, common application programming interface; wherein the translated command is formatted in the single, common application programming interface for use by one of the plurality of applications and to translate a second command formatted in the second protocol into a command formatted in the single, common application programming interface for use by another one of the plurality of applications.

However, Lozinski teaches in Column 1 lines 50-54 "a data processing system in which an application program can communicate with two or more system facilities via a programming interface common to the facilities" in order that "an application program can select at any particular time which of the facilities to communicate with using the interface" (Column 1 lines 56-58).

It would have been obvious to one of ordinary skill in the art at the time of the invention to create the invention of Warren to include "a data processing system in which an application program can communicate with two or more system facilities via a programming interface common to the facilities" as taught by Lozinski in order that "an application program can select at any particular time which of the facilities to communicate with using the interface".

Claim 22

The modified Warren teaches the system according to claim 20, further comprising a presentation layer configured for displaying the first device after locating the first protocol translation module (paragraph [0032] "Abstraction device 106 may include any hardware, software, firmware, or combination thereof for facilitating communication between components of system 100");

Claim 23

Warren teaches a network protocol translation system comprising:
a processor that executes a plurality of run time processes (paragraph [0032] "Abstraction device 106 may include any hardware, software, firmware, or combination thereof for facilitating communication between components of system 100");

wherein the processor enables at least one of the run time processes to communicate via a first network protocol by executing a first translation module that translates between the first network protocol; and wherein the processor enables the at least one of the run time processes to communicate via a second network protocol, different from the first network protocol, by executing a second translation module that translates between the second network protocol and the application programming interface (See figure 4, number 414 "translate device command" and paragraph [0006] "The apparatus further includes a plurality of protocol converters, each operable to receive at least one device command, translate the at least one device command from a first protocol to a second protocol, and communicate the at least one device command

to one or more network or non-network device elements. At least two of the protocol converters are operable to translate the at least one device command into different second protocols"), further wherein the first translation module and second translation module are stored in a list representing a plurality of protocol translator modules ([0049] "Command translator 234 may receive commands 240 and translate and/or reformat commands 240 into one or more device commands 248 suitable for use by network elements 108. For example, command translator 234 may receive a command 240, access database 236 and/or an asset manager 246, and identify the network element 108 associated with command 240. Command translator 234 may also access database 236 and identify one or more device commands 248a and 248b (referred to collectively as device commands 248) that invoke the function requested by command 240 in the identified network element or elements 108. Command translator 234 may further use the information stored in database 236 to map information contained in command 240 into the appropriate positions or fields in device commands 248. In addition, command translator 234 may communicate each device command 248 to a protocol converter 238 that communicates with a network element 108 using the appropriate protocol" and paragraph [0052] "Database 236 stores and facilitates retrieval of information used by abstraction device 206 to perform command translation and other functions. Database 236 may include any of a variety of data structures, arrangements, and/or compilations suitable to store and facilitate retrieval of information").

Warren fails to teach wherein the processes use only a single application programming interface for network communication; wherein the first translation module translates to a single application programming interface; and wherein the second translation module translates to a single application programming interface for network communication.

However, Lozinski teaches in Column 1 lines 50-54 "a data processing system in which an application program can communicate with two or more system facilities via a programming interface common to the facilities" in order that "an application program can select at any particular time which of the facilities to communicate with using the interface" (Column 1 lines 56-58).

It would have been obvious to one of ordinary skill in the art at the time of the invention to create the invention of Warren to include "a data processing system in which an application program can communicate with two or more system facilities via a programming interface common to the facilities" as taught by Lozinski in order that "an application program can select at any particular time which of the facilities to communicate with using the interface".

Claim 24

Warren teaches a method, executed on a computing platform, comprising the acts of:

executing a plurality of run time processes (paragraph [0032] "Abstraction device 106 may include any hardware, software, firmware, or combination thereof for facilitating communication between components of system 100"); enabling at least one of the run time processes to communicate via a first network protocol by executing a first translation module that translates between the first network protocol; and enabling the at least one of the run time processes to communicate via a second network protocol, different from the first network protocol, by executing a second translation module that translates between the second network protocol (See figure 4, number 414 "translate device command" and paragraph [0006] "The apparatus further includes a plurality of protocol converters, each operable to receive at least one device command, translate the at least one device command from a first protocol to a second protocol, and communicate the at least one device command to one or more network or non-network device elements. At least two of the protocol converters are operable to translate the at least one device command into different second protocols"), wherein the first translation module and second translation module are stored in a list representing a plurality of protocol translator modules ([0049] "Command translator 234 may receive commands 240 and translate and/or reformat commands 240 into one or more device commands 248 suitable for use by network elements 108. For example, command translator 234 may receive a command 240, access database 236 and/or an asset manager 246, and identify the network element 108 associated with command 240. Command translator 234 may also access database 236 and identify one or more device commands 248a and 248b (referred to collectively as device commands 248)

that invoke the function requested by command 240 in the identified network element or elements 108. Command translator 234 may further use the information stored in database 236 to map information contained in command 240 into the appropriate positions or fields in device commands 248. In addition, command translator 234 may communicate each device command 248 to a protocol converter 238 that communicates with a network element 108 using the appropriate protocol" and paragraph [0052] "Database 236 stores and facilitates retrieval of information used by abstraction device 206 to perform command translation and other functions. Database 236 may include any of a variety of data structures, arrangements, and/or compilations suitable to store and facilitate retrieval of information").

Warren fails to teach wherein the processes use only a single application programming interface for network communication; wherein the first translation module translates to a single application programming interface; and wherein the second translation module translates to a single application programming interface for network communication.

However, Lozinski teaches in Column 1 lines 50-54 "a data processing system in which an application program can communicate with two or more system facilities via a programming interface common to the facilities" in order that "an application program can select at any particular time which of the facilities to communicate with using the interface" (Column 1 lines 56-58).

It would have been obvious to one of ordinary skill in the art at the time of the invention to create the invention of Warren to include "a data processing system in

which an application program can communicate with two or more system facilities via a programming interface common to the facilities" as taught by Lozinski in order that "an application program can select at any particular time which of the facilities to communicate with using the interface".

Response to Arguments

3. Applicant's arguments filed 03/27/2009 have been fully considered but they are not persuasive.

The applicant has argued that Warren does not teach searching for the device from a plurality of devices based on a content type. The examiner disagrees. In Paragraph [0024] Warren teaches "A web services protocol is a protocol that may allow a web service to be published, located, and invoked over a network, although any other and/or additional functions may be supported by the web services protocol". Furthermore in paragraph [0053] Warren teaches "In one embodiment, database 236 stores device information 254. In a particular embodiment, device information 254 identifies each network element 108 in system 100 and the device type of each network element 108. For example, each network element 108 may communicate using at least one communications protocol, and network elements 108 may be divided into groups or device types based on the communications protocol used by network elements 108". The examiner asserts that the applicants searching for a device based on a content

type reads upon Warrens locating utilizing information wherein network elements may be divided into groups or device types based on communication protocols.

The applicant has additionally argued that Warren does not teach identifying a plurality of protocol translator modules wherein each protocol translator module is associated with a unique protocol and Warren also does not teach storing a list representing the plurality of protocol translator modules. The examiner disagrees. In Paragraph [0049] Warren teaches the "Command translator 234 may receive commands 240 and translate and/or reformat commands 240 into one or more device commands 248 suitable for use by network elements 108. For example, command translator 234 may receive a command 240, access database 236 and/or an asset manager 246, and identify the network element 108 associated with command 240. Command translator 234 may also access database 236 and identify one or more device commands 248a and 248b (referred to collectively as device commands 248) that invoke the function requested by command 240 in the identified network element or elements 108. Command translator 234 may further use the information stored in database 236 to map information contained in command 240 into the appropriate positions or fields in device commands 248. In addition, command translator 234 may communicate each device command 248 to a protocol converter 238 that communicates with a network element 108 using the appropriate protocol" and paragraph [0052] "Database 236 stores and facilitates retrieval of information used by abstraction device 206 to perform command translation and other functions. Database

236 may include any of a variety of data structures, arrangements, and/or compilations suitable to store and facilitate retrieval of information". Warren teaches that the "database 236 may include any of a variety of data structures, arrangements, and/or compilations suitable to store and facilitate retrieval of information", of which the applicants list reads upon, in order to "facilitates retrieval of information used by abstraction device 206 to perform command translation and other functions".

Conclusion

4. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to FARHAD ALI whose telephone number is (571)270-1920. The examiner can normally be reached on Monday thru Friday, 7:30am to 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeffrey C. Pwu can be reached on (571) 272-6798. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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